

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 0074-535083 U.S. APPLICATION NO. (If known, see 37 CFR 1.5)
INTERNATIONAL APPLICATION NO. PCT/NZ2004/000134	INTERNATIONAL FILING DATE 25 June 2004	PRIORITY DATE CLAIMED 25 June 2003
TITLE OF INVENTION NARROWBAND INTERFERENCE SUPPRESSION FOR OFDM SYSTEMS		
APPLICANT(S) FOR DO/EO/US Alan James COULSON		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.		
2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.		
3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.		
4. <input checked="" type="checkbox"/> The US has been elected (Article 31).		
5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))		
a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).		
b. <input type="checkbox"/> has been communicated by the International Bureau.		
c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).		
6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).		
a. <input type="checkbox"/> is attached hereto.		
b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).		
7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))		
a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).		
b. <input type="checkbox"/> have been communicated by the International Bureau.		
c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.		
d. <input type="checkbox"/> have not been made and will not be made.		
8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).		
9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).		
10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
<b>Items 11 to 20 below concern document(s) or information included:</b>		
11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.		
12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.		
13. <input type="checkbox"/> A preliminary amendment.		
14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.		
15. <input type="checkbox"/> A substitute specification.		
16. <input type="checkbox"/> A power of attorney and/or change of address letter.		
17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.		
18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).		
19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

**IAP20 Received PTO 22 DEC 2005**

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 24pt; font-weight: bold; margin-top: 10px;">10/561702</div>	INTERNATIONAL APPLICATION NO. PCT/NZ2004/000134	ATTORNEY'S DOCKET NUMBER 0074-535083
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20. Other items or information:  
 - Transmittal of Letter to the United States Designated/Elected Office (DO/EO/US)  
 - Post card receipt

The following fees have been submitted	CALCULATIONS	PTO USE ONLY																				
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) ..... \$300	\$ 300.00																					
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))																						
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .. .. \$0 All other situations ..\$200	\$ 200.00																					
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .. .. \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .. .. \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB .. .. \$400 All other situations ..\$500	\$ 400.00																					
<b>TOTAL OF 21, 22 and 23 =</b>	<b>900.00</b>																					
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">Total Sheets</th> <th style="width:15%;">Extra Sheets</th> <th style="width:40%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width:30%;">RATE</th> </tr> <tr> <td>40 - 100 =</td> <td>0 /50 =</td> <td></td> <td>x \$250</td> </tr> </table>	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	40 - 100 =	0 /50 =		x \$250	\$													
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40 - 100 =	0 /50 =		x \$250																			
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).	\$																					
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">CLAIMS</th> <th style="width:15%;">NUMBER FILED</th> <th style="width:15%;">NUMBER EXTRA</th> <th style="width:15%;">RATE</th> <th style="width:40%;"></th> </tr> <tr> <td>Total claims</td> <td>- 20 =</td> <td></td> <td>x \$ 50</td> <td>\$</td> </tr> <tr> <td>Independent claims</td> <td>- 3 =</td> <td></td> <td>x \$200</td> <td>\$</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$360</td> <td>\$</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		Total claims	- 20 =		x \$ 50	\$	Independent claims	- 3 =		x \$200	\$	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																			
Total claims	- 20 =		x \$ 50	\$																		
Independent claims	- 3 =		x \$200	\$																		
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$																		
<b>TOTAL OF ABOVE CALCULATIONS =</b>	<b>\$ 900.00</b>																					
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.																						
<b>SUBTOTAL =</b>	<b>\$ 900.00</b>																					
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).	\$																					
<b>TOTAL NATIONAL FEE =</b>	<b>\$ 900.00</b>																					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property	\$																					
<b>TOTAL FEES ENCLOSED =</b>	<b>\$ 900.00</b>																					
	Amount to be refunded:	\$																				
	Amount to be charged	\$																				

IAP20 Rec'd PCT/PTO 22 DEC 2005


- a. ☒ A check in the amount of \$ 900.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge ~~any additional fees which may be required~~ the basic national fee, exam fee, and search fee, if not included, Account No. 04-1406. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

## SEND ALL CORRESPONDENCE TO:

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SIGNATURE

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NAME

31,049

REGISTRATION NUMBER

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

COMMISSIONER FOR PATENTS  
 Alexandria, Virginia 22313-1450

Date of Mailing  
 December 22, 2005

*Express Mail Label No.*  
**EL997340392US**

Applicant's or Agent's File Reference  
 0074-535083

**BOX PCT**

**IDENTIFICATION OF THE INTERNATIONAL APPLICATION**

Int'l Appln. No.  
 PCT/NZ2004/000134

Int'l. Filing Date  
 25 June 2004

Applicant (name)  
**Alan James COULSON**

**TRANSMITTAL OF LETTER TO THE UNITED STATES  
 DESIGNATED/ELECTED OFFICE (DO/EO/US)**

**Attention: PCT International Division**

We are enclosing the following for the above-identified international application:

- 1) Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (**FIRST** submission): Form PTO-1390 (3 pages);
- 2) Copy of International Publication No. WO 2004/114617 (publication of International Application No. PCT/NZ2004/000134);
- 3) Check in the amount of \$900.00: (non-small entity): basic national fee (\$300); examination fee (\$200); and search fee (\$400).